

One of these Plants, whose branch seem'd to be older and more grown then the other, onely the tender Sprouts of it, after the leaves are shut, fall and hang down; of the other, the whole branches fall to the ground, if the Sun shine very warm, upon the first taking off the Glas, which I therefore call the *humble Plant*.

The other two, which do never fall, nor do any of their branches flagg and hang down, shut not their leaves, but upon somewhat a hard stroke; the stalks seem to grow up from a root, and appear more *herbaceous*, they are round and smooth, without any prickle, the Sprouts from them have several pairs of sprigs, with much less leaves then the other on them, and have on each sprig generally seventeen pair.

Upon touching any of the sprigs with leaves on, all the leaves on that sprig contracting themselves by pairs, joyned their upper superficies close together.

Upon the dropping a drop of *Aqua fortis* on the sprig betwixt the leaves, *ff* all the leaves above shut presently, those below by pairs successively after, and by the lower leaves of the other branches, *ll*, *kk*, &c. and so every pair successively, with some little distance of time betwixt, to the top of each sprig, and so they continu'd shut all the time we were there. But I returning the next day, and several days since, found all the leaves dilated again on two of the sprigs; but from *ff*, where the *Aqua fortis* had dropped upwards, dead and withered; but those below on the same sprig, green, and closing upon the touch, and are so at this day, *August 14*.

With a pair of Scissers, as suddenly as it could be done, one of the leaves *bb* was clipped off in the middle, upon which that pair, and the pair above, closed presently, after a little interval, *dd*, then *ee*, and so the rest of the pairs, to the bottom of the sprig, and then the motion began in the lower pairs, *ll*, on the other sprigs, and so shut them by pairs upwards, though not with such distinct distances.

Under

Under a pretty large branch with its sprigs on, there lying a large Shell betwixt two and three Inches below it, there was rubbed on a strong sented oyl, after a little time all the leaves on that sprig were shut, and so they continued all the time of our stay there, but at my returne the next day, I found the position of the Shell alter'd, and the leaves expanded as before, and closing upon the touch.

Upon the application of the Sun-beams by a Burning-glass, the more *humble Plant* fell, the other shut their leaves.

We could not so apply the smoak of *Sulphur*, as to have any visible effect from that, at two or three times trial; but on another trial, the smoak touching the leaves, it succeeded.

The *humble Plant* fell upon taking off the Glas wherewith it was covered.

Cutting off one of the little Sprouts, two or three drops of liquor were thrust out of the part from whence that was cut, very cleer, and pellucid, of a bright greenish colour, tasting at first a little bitterish, but after leaving a licorish-like taste in my mouth.

Since, going two or three times when it was cold, I took the Glasses from the more *humble Plant*, and it did not fall as formerly, but shut its leaves onely. But coming afterwards, when the Sun shone very warm, as soon as it was taken off, it fell as before.

Since I pluck'd off another sprig, whose leaves were all shut, and had been so some time, thinking to observe the liquor should come from that I had broken off, but finding none, though with pressing, to come, I, as dexterously as I could, pull'd off one whose leaves were expanded, and then had upon the shutting of the leaves, a little of the mention'd liquor, from the end of the sprig I had broken from the Plant. And this twice successively, as often almost as I durst rob the Plant.

But my curiosity carrying me yet further, I cut off one of the harder branches of the stronger Plant, and there came of the liquor,